

Date: Tue, 8 Nov 94 04:30:46 PST
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: List
Subject: Ham-Space Digest V94 #315
To: Ham-Space

Ham-Space Digest Tue, 8 Nov 94 Volume 94 : Issue 315

Today's Topics:

A0-27's Back!
ARLK049 Keplerian data
ARLS034 STS66 Keps
Ham Satellite

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 7 Nov 1994 18:23:07 GMT
From: greg@core.rose.hp.com (Greg Dolkas)
Subject: A0-27's Back!

Well, it seems that A0-27 is back in the analog FM Repeater mode. I worked
VE7VWV Ron (*) on Saturday afternoon; he had a really nice signal, subject
to the characteristic A0-27 fade. "The Fade" is possibly my problem
in not having a circular antenna, but the effect is that a signal will be Q9
one minute, and inaudible the next.

Having said that, I wasn't able to hear the bird on Sunday, so maybe it's
schedule is still somewhat erratic.

Greg KD6KGW

(*) I've heard Ron for some time on several satellites, but it wasn't until
Saturday that I understood he was Ron in Vernon, BC, instead of Vern in BC.
:-)

Date: Sat, 05 Nov 1994 14:32:01 EST
From: w1aw@arrl.org
Subject: ARLK049 Keplerian data

SB KEP @ ARL \$ARLK049
ARLK049 Keplerian data

ZCZC SK17
QST de W1AW
Keplerian Bulletin 49 ARLK049
From ARRL Headquarters
Newington, CT November 5, 1994
To all radio amateurs

SB KEP ARL ARLK049
ARLK049 Keplerian data

Thanks to NASA, AMSAT and N3FKV for the following Keplerian data.

Decode 2-line elsets with the following key:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

STS-66

1 99966U 94307.76579162 .00051270 00000-0 16849-3 0 26
2 99966 56.9997 196.6306 0011659 276.4103 83.5649 15.89544561 27

AO-10

1 14129U 83058B 94289.48195497 -.00000348 00000-0 10000-3 0 3242
2 14129 26.8030 302.7931 6025932 219.6206 75.3706 2.05881540 57313

RS-10/11

1 18129U 87054A 94304.84748498 .00000052 00000-0 40142-4 0 9797
2 18129 82.9278 227.8238 0012238 11.2444 348.8979 13.72343549368650

UO-11

1 14781U 84021B 94302.05294378 .00000173 00000-0 37104-4 0 7495
2 14781 97.7836 310.5003 0011163 197.4661 162.6159 14.69260346569967

RS-12/13

1 21089U 91007A 94304.91867598 .00000041 00000-0 27063-4 0 7490
2 21089 82.9229 270.0396 0030770 88.3301 272.1381 13.74048713187425

AO-13

1 19216U 88051B 94301.75974551 -.00000432 00000-0 10000-4 0 9907
2 19216 57.6973 223.3019 7241598 353.4584 0.6898 2.09725736 17310

UO-14

1 20437U 90005B 94301.74159064 .00000055 00000-0 38476-4 0 480
2 20437 98.5848 24.6660 0011151 154.9063 205.2657 14.29860444248677

A0-16

1 20439U 90005D 94301.72214854 .000000041 00000-0 32895-4 0 8469
2 20439 98.5942 26.0271 0011408 155.6840 204.4885 14.29914275248681

D0-17

1 20440U 90005E 94302.22318218 .000000047 00000-0 34942-4 0 8478
2 20440 98.5955 26.8929 0011425 153.8182 206.3588 14.30054434248778

W0-18

1 20441U 90005F 94301.78113868 .000000045 00000-0 34428-4 0 8504
2 20441 98.5948 26.4461 0012038 155.2980 204.8780 14.30027892248710

L0-19

1 20442U 90005G 94305.24844492 .000000067 00000-0 42696-4 0 8469
2 20442 98.5955 30.1614 0012669 144.9499 215.2516 14.30126982249221

F0-20

1 20480U 90013C 94301.38190115 -.000000003 00000-0 62159-4 0 7430
2 20480 99.0587 68.1645 0541313 37.8580 325.9332 12.83227547221218

A0-21

1 21087U 91006A 94302.77226429 .000000094 00000-0 82657-4 0 5330
2 21087 82.9443 43.1073 0036920 69.0897 291.4205 13.74546026188072

U0-22

1 21575U 91050B 94301.69208760 .000000076 00000-0 40064-4 0 5526
2 21575 98.4237 13.4102 0006811 252.6805 107.3632 14.36938738172251

K0-23

1 22077U 92052B 94302.28239549 -.000000037 00000-0 10000-3 0 4457
2 22077 66.0874 359.2247 0015205 255.3725 104.5608 12.86288386104039

K0-25

1 22828U 93061F 94302.75169477 .000000064 00000-0 43326-4 0 3216
2 22828 98.6386 17.2108 0010173 158.1043 202.0575 14.28072014 24980

K0-25?

1 22830U 93061H 94301.21099194 .000000075 00000-0 47339-4 0 3509
2 22830 98.5407 11.4901 0011017 144.0378 216.1519 14.28068979 56687

I0-26

1 22826U 93061D 94302.70216330 .000000037 00000-0 32828-4 0 3428
2 22826 98.6415 17.1382 0008738 173.1615 186.9687 14.27744499 56880

A0-27

1 22825U 93061C 94302.73101488 .000000017 00000-0 24572-4 0 3444
2 22825 98.6393 17.1085 0008494 170.6233 189.5105 14.27639118 56886

P0-28

1 22829U 93061G 94302.75966162 .000000075 00000-0 47660-4 0 3366
2 22829 98.6396 17.2386 0010131 159.4323 200.7267 14.28047222 56902

Mir

1 16609U 86017A 94304.98133172 .00009913 00000-0 13777-3 0 8324
2 16609 51.6464 221.7235 0001875 196.3260 163.7673 15.57681518497336

Keplerian bulletins are transmitted twice weekly from W1AW.

The next scheduled transmission of these data will be Tuesday,
November 8, 1994, at 2330z on Baudot and AMTOR.

NNNN

/EX

Date: Sat, 05 Nov 1994 22:40:53 EST
From: w1aw@arrl.org
Subject: ARLS034 STS66 Keps

SB SPACE @ ARL \$ARLS034
ARLS034 STS66 Keps

ZCZC AS78
QST de W1AW
Space Bulletin 034 ARLS034
From ARRL Headquarters
Newington, CT November 6, 1994
To all radio amateurs

SB SPACE ARL ARLS034
ARLS034 STS66 Keps

STS-66
1 23340U 94073A 94309.84327167 .00051270 00000-0 16849-3 0 41
2 23340 56.9950 187.9829 0013891 285.7412 74.2136 15.90299770 353

Satellite: STS-66
Catalog number: 23340
Epoch time: 94309.84327167 = (05 NOV 94 20:14:18.67 UTC)
Element set: 004
Inclination: 56.9950 deg
RA of node: 187.9829 deg
Eccentricity: .0013891
Arg of perigee: 285.7412 deg
Mean anomaly: 74.2136 deg
Mean motion: 15.90299770 rev/day
Decay rate: 5.1270e-04 rev/day sq
Epoch rev: 35
Checksum: 323
Space Shuttle Flight STS-66
Keplerian element set JSC-004
from NASA flight Day 3 vector
Gil Carman
NASA Johnson Space Center

Gil Carman, WA5NOM
NASA Johnson Space Center
NNNN
/EX

Date: Sat, 5 Nov 1994 01:24:59 GMT
From: gary@ke4zv.atl.ga.us (Gary Coffman)

Subject: Ham Satellite

In article <199411041754.AA12059@clemenzena.xilinx.com> jho@xilinx.COM (Jonathan Ho) writes:

>Hi there,

>

>I'd like to share some of the thought with you guys on the net about the
>future ham satellites. I always hear from satellite hams say that LEO sat
>is easy to work and is good for a short contact. OSCAR-13 is good for DX and
>long QSO and
>however, it is not easy to work (expensive equipment and tracking etc) and
>signal is always weak.

>

>Since there are a lot of commercial geostationary
>satellites on the orbits, is it possible that we hams can build reasonable
>ERP small size transponders placing in the commercial satellites to share
>some common facilities such as solar panels on the commercial sat platforms?
>If this can be done, several ham sats can be linked so that a reliable world
>wide ham sat network can be formed.

Good idea, unfortunately the commercial geosat boys aren't interested
in letting us piggyback, and when AMSAT finally figured out what our
own geosat would cost, the gasp could be heard around the world. :-)
Looks like ham geosats will have to wait a while longer.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		emory!kd4nc!ke4zv!gary
534 Shannon Way		Guaranteed!		gary@ke4zv.atl.ga.us
Lawrenceville, GA 30244				

End of Ham-Space Digest V94 #315
